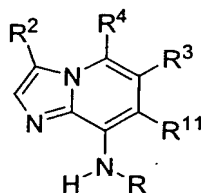


CLAIMS

What is claimed is:

1. A compound represented by the structural formula:



Formula III

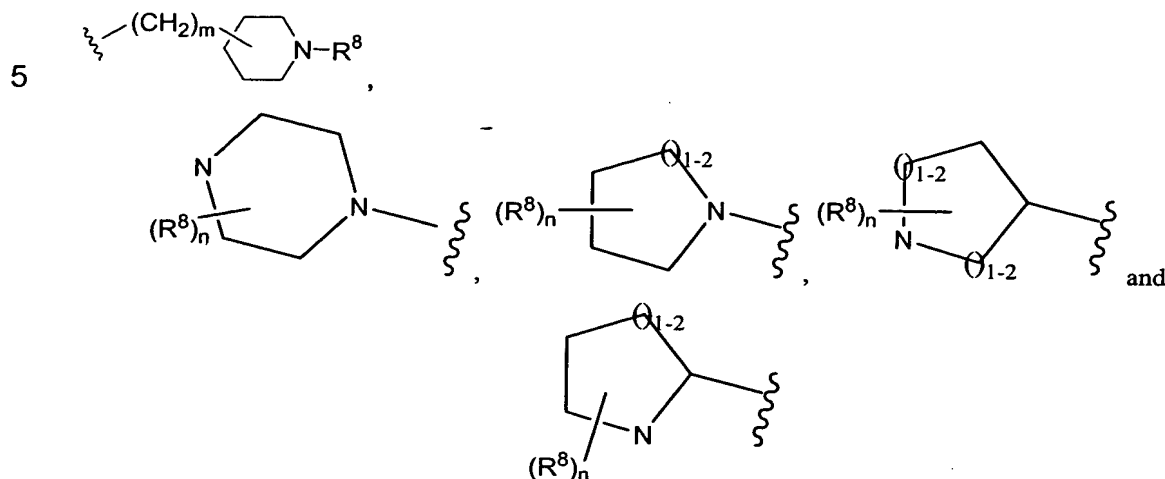
wherein:

- R is selected from the group consisting of alkyl, aryl, heteroaryl, heteroarylalkyl, heterocyclyl, heterocyclalkyl, arylalkyl, cycloalkyl, -NR⁶R⁷, -C(O)R⁷, -C(O)OR⁶, -C(O)NR⁶R⁷ and -S(O₂)R⁷, wherein each of said alkyl, aryl, heteroaryl, heteroarylalkyl, heterocyclyl, heterocyclalkyl, cycloalkyl and arylalkyl can be unsubstituted or optionally independently substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, cycloalkyl, CF₃, CN, -OCF₃, -OR⁶, -C(O)R⁷, -NR⁶R⁷, -C(O)OR⁶, -C(O)NR⁵R⁶, -SR⁶, -S(O₂)R⁷, -S(O₂)NR⁵R⁶, -N(R⁵)S(O₂)R⁷, -N(R⁵)C(O)R⁷ and -N(R⁵)C(O)NR⁵R⁶ and NO₂;

R² is selected from the group consisting of H, R⁹, alkyl, aryl, arylalkyl, heteroaryl, heteroarylalkyl, heterocyclyl, heterocyclalkyl, alkenyl, alkynyl, cycloalkyl, -CF₃, -C(O)R⁷, alkyl substituted with 1-6 R⁹ groups which groups can be the same or different with each R⁹ being independently selected,

- and
, wherein each of said aryl, heteroaryl, arylalkyl and heterocyclyl can be unsubstituted or optionally independently substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, cycloalkyl, CF₃, CN, -OCF₃, -OR⁶, -C(O)R⁷, -NR⁶R⁷, -C(O)OR⁶, -C(O)NR⁵R⁶, -SR⁶, -S(O₂)R⁷, -S(O₂)NR⁵R⁶, -N(R⁵)S(O₂)R⁷, -N(R⁵)C(O)R⁷ and -N(R⁵)C(O)NR⁵R⁶;

R^3 is selected from the group consisting of H, halogen, $-NR^5R^6$, CF_3 , alkyl, cycloalkyl, aryl, heteroaryl, heteroarylalkyl, heterocyclyl, heterocyclylalkyl, alkynyl, alkenyl, $-(CHR^5)_n$ -aryl, $-(CHR^5)_n$ -heteroaryl, $-(CHR^5)_n$ -OR⁶, $-S(O_2)R^6$, $-C(O)R^6$, $-S(O_2)NR^5R^6$, $-C(O)OR^6$, $-C(O)NR^5R^6$, $-CH(aryl)_2$, $-(CH_2)_m$ -NR⁸,



wherein each of said aryl, alkyl, arylalkyl, cycloalkyl, heteroaryl, heteroarylalkyl, heterocyclyl and heterocyclylalkyl for R^3 and the heterocyclyl moieties whose structures are shown immediately above for R^3 can be unsubstituted or optionally independently substituted with one or more moieties which moieties can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, aryl, cycloalkyl, CF_3 , CN, $-OCF_3$, $-OR^5$, $-C(R^4R^5)_nOR^5$, $-NR^5R^6$, $-C(R^4R^5)_nNR^5R^6$, $-C(O_2)R^5$, $-C(O)R^5$, $-C(O)NR^5R^6$, $-SR^6$, $-S(O_2)R^6$, $-S(O_2)NR^5R^6$, $-N(R^5)S(O_2)R^7$, $-N(R^5)C(O)R^7$ and $-N(R^5)C(O)NR^5R^6$;

R^4 is selected from the group consisting of H, halogen, CF_3 , alkyl, cycloalkyl, aryl, heteroaryl, heteroarylalkyl, heterocyclyl, heterocyclylalkyl, alkynyl, alkenyl, $-(CHR^5)_n$ -aryl, $-(CHR^5)_n$ -heteroaryl, $-(CHR^5)_n$ -OR⁶, $-S(O_2)R^6$, $-C(O)R^6$, $-S(O_2)NR^5R^6$, $-C(O)OR^6$, $-C(O)NR^5R^6$, cycloalkyl, $-CH(aryl)_2$, $-(CH_2)_m$ -NR⁸,

20 and , wherein each of said aryl, alkyl, cycloalkyl, heteroaryl, heteroarylalkyl, heterocyclyl and heterocyclylalkyl can be unsubstituted or optionally substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, aryl, cycloalkyl, CF_3 , CN, $-OCF_3$, $-OR^5$, $-NR^5R^6$, $-C(O_2)R^5$, $-C(O)NR^5R^6$, $-SR^6$ and $-S(O_2)R^6$;

R^5 is H, alkyl or aryl;

R^6 is selected from the group consisting of H, alkyl, aryl, heteroaryl, arylalkyl, cycloalkyl, heteroarylalkyl, heterocyclyl and heterocyclylalkyl, wherein each of said alkyl, aryl, heteroaryl, arylalkyl, cycloalkyl, heteroarylalkyl,

- 5 heterocyclyl and heterocyclylalkyl can be unsubstituted or optionally independently substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, aryl, cycloalkyl, heterocyclylalkyl, CF_3 , OCF_3 , CN, $-OR^5$, $-NR^5R^{10}$, $-N(R^5)Boc$, $-C(R^4R^5)OR^5$, $-C(O)R^6$, $-C(O)OR^5$, $-C(O)NR^5R^{10}$, $-SO_3H$, $-SR^{10}$,
 10 $-S(O_2)R^7$, $-S(O_2)NR^5R^{10}$, $-N(R^5)S(O_2)R^7$, $-N(R^5)C(O)R^7$ and $-N(R^5)C(O)NR^5R^{10}$;

R^{10} is selected from the group consisting of H, alkyl, aryl, arylalkyl, cycloalkyl, heterocyclyl, heterocyclylalkyl, heteroaryl, and heteroarylalkyl, wherein each of said alkyl, aryl, arylalkyl, cycloalkyl, heterocyclyl, heterocyclylalkyl,

- 15 heteroaryl, and heteroarylalkyl can be unsubstituted or optionally substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, aryl, cycloalkyl, heterocyclylalkyl, CF_3 , OCF_3 , CN, $-OR^5$, $-NR^4R^5$, $-N(R^5)Boc$, $-(CR^4R^5)_nOR^5$, $-C(O_2)R^5$, $-C(O)NR^4R^5$, $-C(O)R^5$, $-SO_3H$, $-SR^5$, $-S(O_2)R^7$,
 20 $-S(O_2)NR^4R^5$, $-N(R^5)S(O_2)R^7$, $-N(R^5)C(O)R^7$ and $-N(R^5)C(O)NR^4R^5$;

or optionally (i) R^5 and R^{10} in the moiety $-NR^5R^{10}$, or (ii) R^5 and R^6 in the moiety $-NR^5R^6$, may be joined together to form a cycloalkyl or heterocyclyl moiety, with each of said cycloalkyl or heterocyclyl moiety being unsubstituted or optionally independently being substituted with one or more R^9 groups;

- 25 R^7 is selected from the group consisting of alkyl, cycloalkyl, aryl, heteroaryl, arylalkyl and heteroarylalkyl wherein each of said alkyl, cycloalkyl, heteroarylalkyl, aryl, heteroaryl and arylalkyl can be unsubstituted or optionally independently substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl,
 30 aryl, cycloalkyl, CF_3 , OCF_3 , CN, $-OR^5$, $-NR^5R^{10}$, $-CH_2OR^5$, $-C(O_2)R^5$, $-C(O)NR^5R^{10}$, $-C(O)R^5$, $-SR^{10}$, $-S(O_2)R^{10}$, $-S(O_2)NR^5R^{10}$, $-N(R^5)S(O_2)R^{10}$, $-N(R^5)C(O)R^{10}$ and $-N(R^5)C(O)NR^5R^{10}$;

R^8 is selected from the group consisting of R^6 , $-C(O)NR^5R^{10}$, $-S(O_2)NR^5R^{10}$, $-C(O)R^7$, $-C(O)OR^6$ and $-S(O_2)R^7$;

R^9 is selected from the group consisting of halogen, CN, NR^5R^{10} , $-C(O)OR^6$, $-C(O)NR^5R^{10}$, $-OR^6$, $-C(O)R^7$, $-SR^6$, $-S(O_2)R^7$, $-S(O_2)NR^5R^{10}$,
 5 $-N(R^5)S(O_2)R^7$, $-N(R^5)C(O)R^7$ and $-N(R^5)C(O)NR^5R^{10}$;

R^{11} is H, alkyl or aryl;

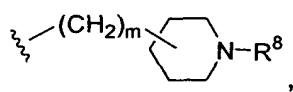
m is 0 to 4; and

n is 1-4.

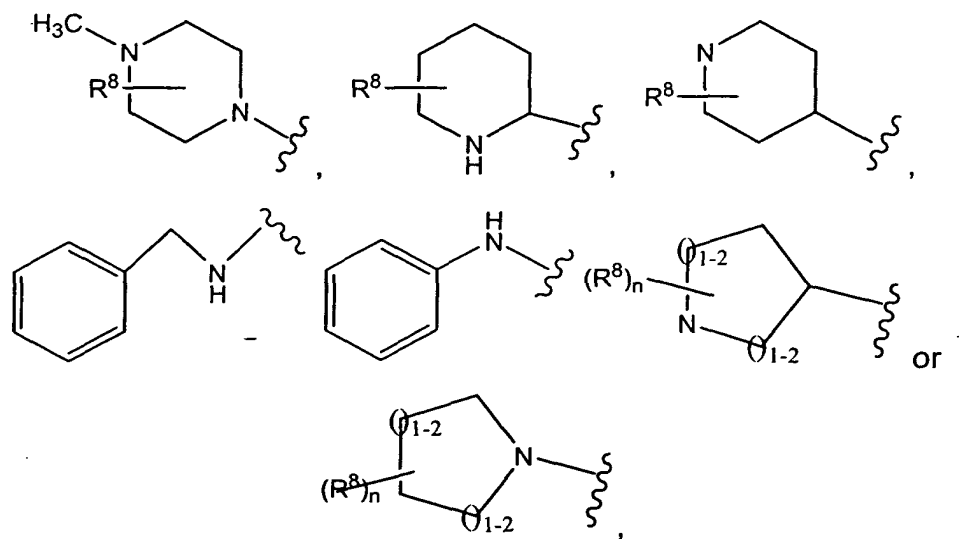
2. The compound of claim 1, wherein R is selected from the group consisting
 10 of aryl, arylalkyl, heteroaryl, heteroarylalkyl, alkyl, $-S(O_2)R^7$, and $-C(O)R^7$, wherein each of said aryl, arylalkyl, heteroaryl, heteroarylalkyl and alkyl can be unsubstituted or optionally independently substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, CF_3 , CN, $-OCF_3$, $-NR^6R^7$,
 15 $-N(R^5)C(O)R^7$, and $-OR^6$;

R^2 is selected from the group consisting of halogen, alkyl, aryl, heteroaryl, alkenyl and $-C(O)R^7$, wherein each of said alkyl, aryl and heteroaryl can be unsubstituted or optionally independently substituted with one or more moieties which can be the same or different, each moiety being independently selected
 20 from the group consisting of halogen, alkyl, CF_3 , CN, $-OCF_3$, and $-OR^6$;

R^3 is selected from the group consisting of H, aryl, heteroaryl, $-(CHR^5)_n$ -aryl, $-(CHR^5)_n$ -heteroaryl,

$-(CHR^5)_n-OR^6$, $-C(O)R^6$, cycloalkyl, $-NR^5R^6$, $-CH(aryl)_2$,


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- 5 wherein each of said aryl, cycloalkyl and heteroaryl and the heterocyclyl structures shown immediately above for R^3 can be substituted or optionally independently substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, CF_3 , OCF_3 , alkyl, CN, aryl, $-C(O)R^5$, $-C(O_2)R^5$, $-S(O_2)R^6$, $-C(=NH)-NH_2$, $-C(=CN)-NH_2$,
 10 hydroxyalkyl, alkoxy carbonyl, $-SR^6$, and OR^5 , with the proviso that no carbon adjacent to a nitrogen atom on a heterocyclyl ring carries a $-OR^5$ moiety;

R^4 is selected from the group consisting of H, alkyl, aryl, heteroaryl, $-(CHR^5)_n$ -aryl, $-(CHR^5)_n$ -heteroaryl, $-(CHR^5)_n-OR^6$, $-C(O)R^6$, cycloalkyl, $-CH(aryl)_2$

and $-(CH_2)_m$ -N- R^8 , wherein each of said aryl and heteroaryl can be

- 15 unsubstituted or optionally substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of halogen, alkyl, aryl, CF_3 , CN, $-C(O_2)R^5$ and $-S(O_2)R^6$;

R^5 is H, aryl or lower alkyl;

m is 0 to 2, and

- 20 n is 1 to 3.

3. The compound of claim 2, wherein R is selected from the group consisting of phenyl, benzyl, benzoyl, phenylsulfonyl, thienyl, thienylalkyl, thienylcarbonyl, thienylsulfonyl, furyl, furylalkyl, furylcarbonyl, furylsulfonyl, pyridyl, pyridylalkyl,

pyridylcarbonyl, pyridylsulfonyl, pyrrolyl, pyrrolylalkyl, pyrrolylcarbonyl, pyrrolylsulfonyl, oxazolyl, oxazolylalkyl, oxazolylcarbonyl, oxazolylsulfonyl, thiazolyl, thiazolylalkyl, thiazolylcarbonyl, thiazolylsulfonyl, pyrazinyl, pyrazinylalkyl, pyrazinylcarbonyl, pyrazinylsulfonyl, pyridazinyl, pyridazinylalkyl, pyridazinylcarbonyl, pyridazinylsulfonyl, pyrimidinyl, pyrimidinylalkyl, pyrimidinylcarbonyl, pyrimidinylsulfonyl, $-S(O_2)CH_3$, and $-C(O)CH_3$, as well as their applicable N-oxides, wherein each of said phenyl (including the phenyl of the benzyl), thienyl, furyl, pyridyl, pyrrolyl, oxazolyl, thiazolyl, pyrazinyl, pyridazinyl and pyrimidinyl can be unsubstituted or optionally independently substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of Cl, Br, I, lower alkyl, CF_3 , CN, $-C(O)OR^6$, $-NR^6R^7$, $-N(R^5)C(O)R^7$, $-OCF_3$, and $-OH$.

4. The compound of claim 2, wherein R is unsubstituted phenyl, unsubstituted pyridyl, benzyl whose phenyl can be unsubstituted or optionally substituted with one or more moieties selected from the group consisting of F, Cl, Br, CN, CF_3 , $-NH_2$, and $-N(H)C(O)CH_3$, benzoyl whose phenyl can be unsubstituted or optionally substituted with one or more moieties selected from the group consisting of F, Cl, Br, CN, CF_3 , $-NH_2$, and $-N(H)C(O)CH_3$, phenylsulfonyl whose phenyl can be unsubstituted or optionally substituted with one or more moieties selected from the group consisting of F, Cl, Br, CN, $-NH_2$, $-N(H)C(O)CH_3$ and CF_3 , pyridylmethyl whose pyridyl can be unsubstituted or optionally substituted with one or more moieties selected from the group consisting of F, Cl, Br, CN, CF_3 , $-NH_2$, and $-N(H)C(O)CH_3$, pyridylcarbonyl whose pyridyl can be unsubstituted or optionally substituted with one or more moieties selected from the group consisting of F, Cl, Br, CN, CF_3 , $-NH_2$, and $-N(H)C(O)CH_3$, pyridylsulfonyl whose pyridyl can be unsubstituted or optionally substituted with one or more moieties selected from the group consisting of F, Cl, Br, CN, $-NH_2$, $-N(H)C(O)CH_3$ and CF_3 , pyrimidylmethyl whose pyrimidylmethyl can be unsubstituted or optionally substituted with one or more moieties selected from the group consisting of F, Cl, Br, CN, $-NH_2$, $-N(H)C(O)CH_3$ and CF_3 , pyrimidylcarbonyl whose pyrimidyl can be unsubstituted or optionally substituted with one or more moieties selected from the group consisting

of F, Cl, Br, CN, $-\text{NH}_2$, $-\text{N}(\text{H})\text{C}(\text{O})\text{CH}_3$ and CF_3 , or pyrimidylsulfonyl whose pyrimidyl can be unsubstituted or optionally substituted with one or more moieties selected from the group consisting of F, Cl, Br, CN, $-\text{NH}_2$, $-\text{N}(\text{H})\text{C}(\text{O})\text{CH}_3$ and CF_3 .

5 The compound of claim 2, wherein R is unsubstituted phenyl, unsubstituted pyridyl or unsubstituted pyrimidinyl.

6. The compound of claim 2, wherein R is benzyl whose phenyl is unsubstituted or optionally substituted with one or more moieties selected from the group consisting of F, Cl, Br, CN, $-\text{NH}_2$, $-\text{N}(\text{H})\text{C}(\text{O})\text{CH}_3$ and CF_3 .

7. The compound of claim 2, wherein R is pyridylmethyl whose pyridyl is
10 unsubstituted or optionally substituted with one or more moieties selected from the group consisting of F, Cl, Br, CN, $-\text{NH}_2$, $-\text{N}(\text{H})\text{C}(\text{O})\text{CH}_3$ and CF_3 .

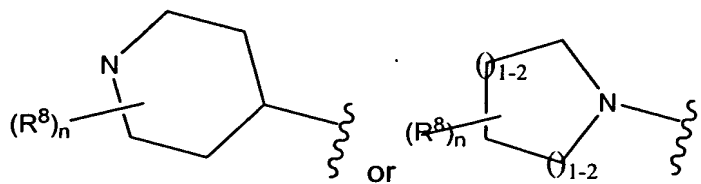
8. The compound of claim 7, wherein said pyridyl is 2-pyridyl, 3-pyridyl or 4-pyridyl.

9. The compound of claim 2, wherein R is phenyl, pyridyl or pyrimidinyl each of
15 which is substituted with one or more moieties which can be the same or different, each being independently selected from the group consisting of Cl, Br, $-\text{NH}_2$, $-\text{N}(\text{H})\text{C}(\text{O})\text{CH}_3$ or $-\text{CF}_3$.

10. The compound of claim 2, wherein R^2 is H, F, Cl, Br, I, hydroxyalkyl, alkoxyalkyl, or lower alkyl.

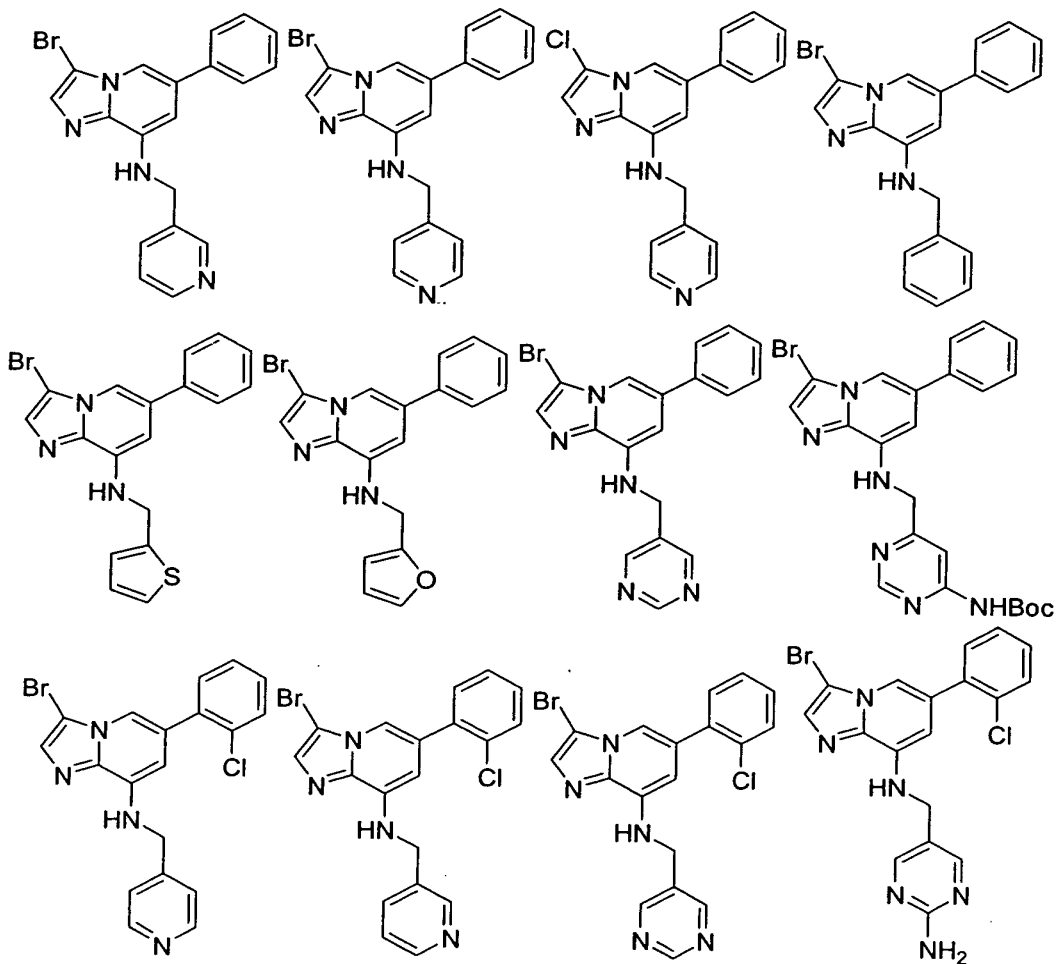
20 11. The compound of claim 10, wherein R^2 is Br, I, $-\text{CH}_2\text{OH}$, $-\text{CH}_2\text{OCH}_3$, or methyl.

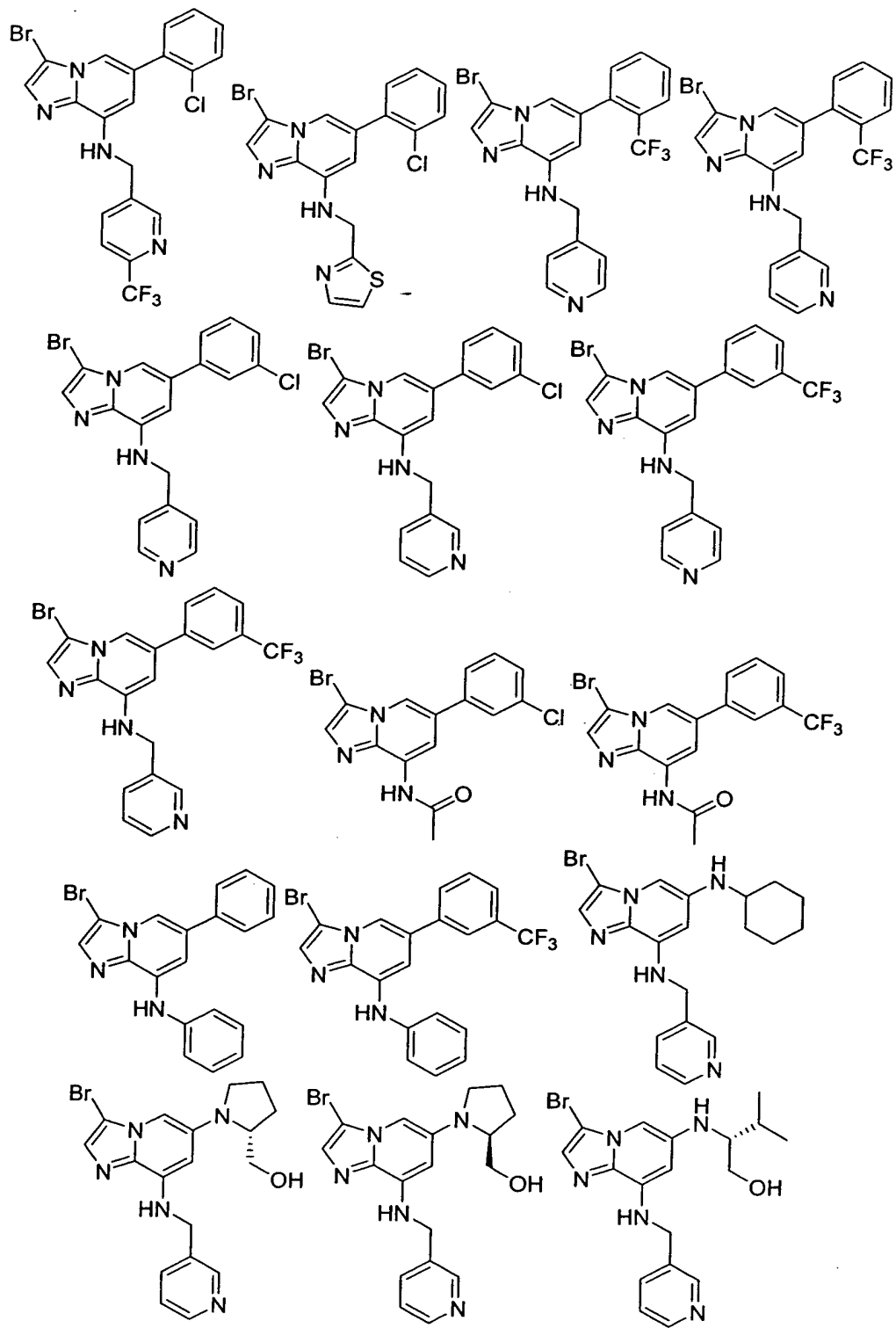
12. The compound of claim 2, wherein R^3 is H, alkyl, aryl, $-\text{NR}^5\text{R}^6$,

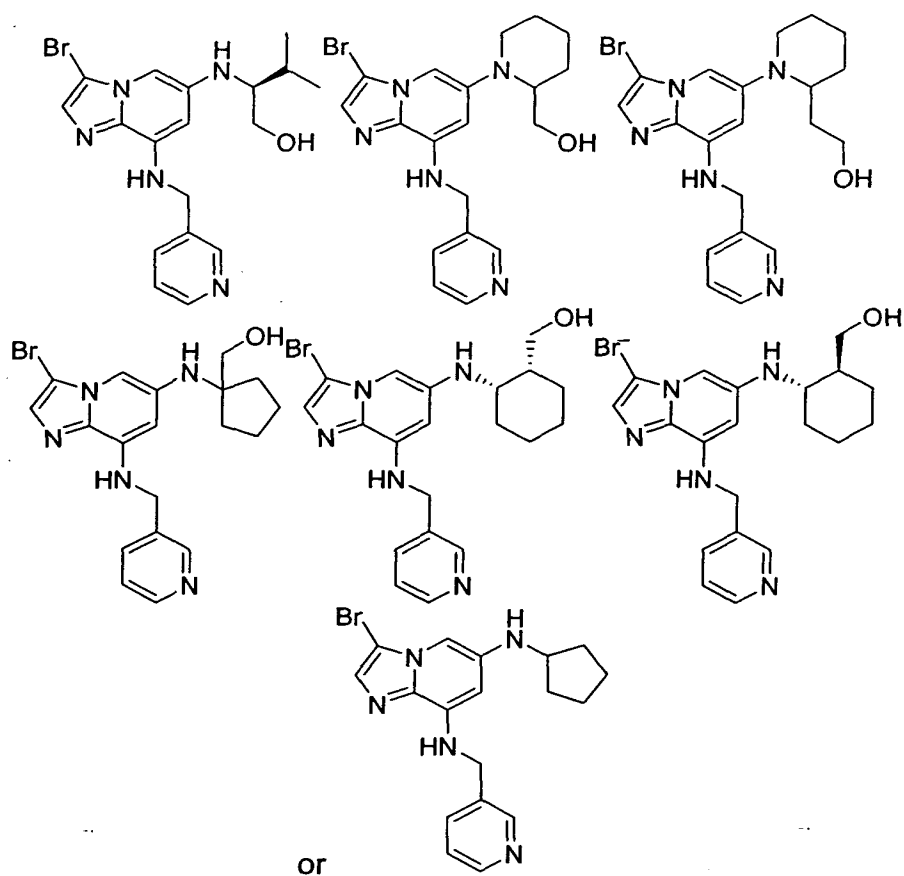


25 wherein said alkyl and aryl and the heterocyclyl moieties shown immediately above for R^3 can be unsubstituted or optionally independently substituted with one or more moieties (in addition to any R^8) which can be the same or different, each moiety being independently selected from the group consisting of F, Cl, Br, CF_3 , lower alkyl, hydroxyalkyl, alkoxy, $-\text{S}(\text{O}_2)\text{R}^6$, and CN.

13. The compound of claim 2, wherein R⁴ is H, alkyl or aryl, wherein said alkyl or aryl can be unsubstituted or optionally independently substituted with one or more moieties which can be the same or different, each moiety being independently selected from the group consisting of F, Cl, Br, CF₃, lower alkyl, hydroxyalkyl, alkoxy, -S(O₂)R⁶, and CN.
14. The compound of claim 2, wherein R⁵ is H.
15. The compound of claim 2, wherein R¹¹ is H.
16. The compound of claim 2, wherein m is 0.
17. The compound of claim 2, wherein n is 1.
18. A compound of the formula:

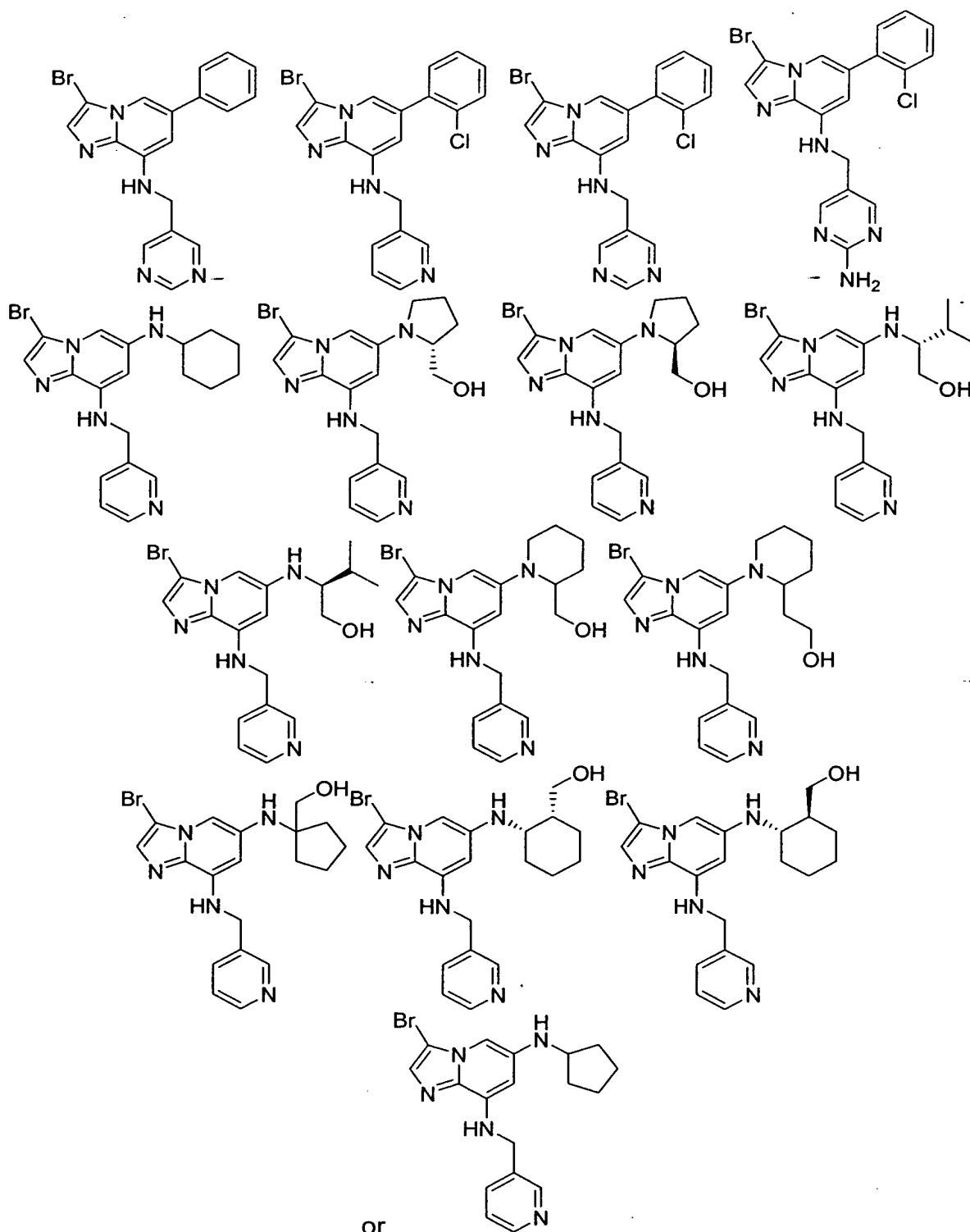






5 or a pharmaceutically acceptable salt or solvate thereof.

19. A compound of the formula:



20. A method of inhibiting one or more cyclin dependent kinases, comprising administering a therapeutically effective amount of at least one compound of claim 1 to a patient in need of such inhibition.
21. A method of treating one or more diseases associated with cyclin
5 dependent kinase, comprising administering a therapeutically effective amount of at least one compound of claim 1 to a patient in need of such treatment.
22. The method of claim 21, wherein said cyclin dependent kinase is CDK2.
23. The method of claim 21, wherein said cyclin dependent kinase is mitogen activated protein kinase (MAPK/ERK).
- 10 24. The method of claim 21, wherein said cyclin dependent kinase is glycogen synthase kinase 3 (GSK3beta).
25. The method of claim 21, wherein said disease is selected from the group consisting of:
- cancer of the bladder, breast, colon, kidney, liver, lung, small cell lung
15 cancer, esophagus, gall bladder, ovary, pancreas, stomach, cervix, thyroid, prostate, and skin, including squamous cell carcinoma;
- leukemia, acute lymphocytic leukemia, acute lymphoblastic leukemia, B-cell lymphoma, T-cell lymphoma, Hodgkins lymphoma, non-Hodgkins lymphoma, hairy cell lymphoma and Burkett's lymphoma;
- 20 acute and chronic myelogenous leukemia, myelodysplastic syndrome and promyelocytic leukemia;
- fibrosarcoma, rhabdomyosarcoma;
- astrocytoma, neuroblastoma, glioma and schwannomas;
- melanoma, seminoma, teratocarcinoma, osteosarcoma, xenoderoma
25 pigmentosum, keratocanthoma, thyroid follicular cancer and Kaposi's sarcoma.
26. A method of treating one or more diseases associated with cyclin dependent kinase, comprising administering to a mammal in need of such treatment
- an amount of a first compound, which is a compound of claim 1, or a
30 pharmaceutically acceptable salt or solvate thereof;
- and

an amount of at least one second compound, said second compound being an anti-cancer agent;

wherein the amounts of the first compound and said second compound result in a therapeutic effect.

5 27. The method of claim 26, further comprising radiation therapy.

28. The method of claim 26, wherein said anti-cancer agent is selected from
 - the group consisting of a cytostatic agent, cisplatin, doxorubicin, taxotere, taxol, etoposide, CPT-11, irinotecan, camptostar, topotecan, paclitaxel, docetaxel, epothilones, tamoxifen, 5-fluorouracil, methoxtrexate, 5FU, temozolomide,
 10 cyclophosphamide, SCH 66336, R115777, L778,123, BMS 214662, Iressa, Tarceva, antibodies to EGFR, Gleevec, intron, ara-C, adriamycin, cytoxan, gemcitabine, Uracil mustard, Chlormethine, Ifosfamide, Melphalan, Chlorambucil, Pipobroman, Triethylenemelamine, Triethylenethiophosphoramine, Busulfan, Carmustine, Lomustine, Streptozocin, Dacarbazine, Floxuridine, Cytarabine,
 15 6-Mercaptopurine, 6-Thioguanine, Fludarabine phosphate, oxaliplatin, leucovirin, ELOXATINTM, Pentostatine, Vinblastine, Vincristine, Vindesine, Bleomycin, Dactinomycin, Daunorubicin, Doxorubicin, Epirubicin, Idarubicin, Mithramycin, Deoxycoformycin, Mitomycin-C, L-Asparaginase, Teniposide 17 α -Ethinylestradiol, Diethylstilbestrol, Testosterone, Prednisone, Fluoxymesterone, Dromostanolone
 20 propionate, Testolactone, Megestrolacetate, Methylprednisolone, Methyltestosterone, Prednisolone, Triamcinolone, Chlorotrianisene, Hydroxyprogesterone, Aminoglutethimide, Estramustine, Medroxyprogesteroneacetate, Leuprolide, Flutamide, Toremifene, goserelin, Cisplatin, Carboplatin, Hydroxyurea, Amsacrine, Procarbazine, Mitotane,
 25 Mitoxantrone, Levamisole, Navelbene, CPT-11, Anastrozole, Letrazole, Capecitabine, Reloxafine, Droloxafine, or Hexamethylmelamine.

29. A pharmaceutical composition comprising a therapeutically effective amount of at least one compound of claim 1 in combination with at least one pharmaceutically acceptable carrier.

30 30. The pharmaceutical composition of claim 29, additionally comprising one or more anti-cancer agents selected from the group consisting of a cytostatic agent, cisplatin, doxorubicin, taxotere, taxol, etoposide, CPT-11, irinotecan, camptostar,

- topotecan, paclitaxel, docetaxel, epothilones, tamoxifen, 5-fluorouracil, methotrexate, 5FU, temozolomide, cyclophosphamide, SCH 66336, R115777, L778,123, BMS 214662, Iressa, Tarceva, antibodies to EGFR, Gleevec, intron, ara-C, adriamycin, cytoxan, gemcitabine, Uracil mustard, Chlormethine,
- 5 Ifosfamide, Melphalan, Chlorambucil, Pipobroman, Triethylenemelamine, Triethylenethiophosphoramine, Busulfan, Carmustine, Lomustine, Streptozocin, Dacarbazine, Floxuridine, Cytarabine, 6-Mercaptopurine, 6-Thioguanine, Fludarabine phosphate, Pentostatine, Vinblastine, Vincristine, Vindesine, Bleomycin, Dactinomycin, Daunorubicin, Doxorubicin, Epirubicin, Idarubicin,
- 10 Mithramycin, Deoxycoformycin, Mitomycin-C, L-Asparaginase, Teniposide 17 α -Ethinylestradiol, Diethylstilbestrol, Testosterone, Prednisone, Fluoxymesterone, Dromostanolone propionate, Testolactone, Megestrolacetate, Methylprednisolone, Methyltestosterone, Prednisolone, Triamcinolone, Chlorotrianisene, Hydroxyprogesterone, Aminoglutethimide, Estramustine,
- 15 Medroxyprogesteroneacetate, Leuprolide, Flutamide, Toremifene, goserelin, Cisplatin, Carboplatin, Hydroxyurea, Amsacrine, Procarbazine, Mitotane, Mitoxantrone, Levamisole, Navelbene, CPT-11, Anastrozole, Letrazole, Capecitabine, Reloxafine, Droloxafine, or Hexamethylmelamine.
31. A compound of claim 1 in purified form.